## CLEAN VERSION OF THE CLAIM LISTING

1. (amended) A bioactive polypeptide, MF3, with a primary structure depicted in SEQ ID NO:1, an active fragment of MF3, or any functional derivative of MF3,

said polypeptide, active fragment or functional derivative being capable of effecting a resistance of a plant against microbial diseases and/or against attack of plant parasites.

- 2. (original) An isolated DNA sequence depicted in SEQ ID:2, or fragment thereof, encoding a functionally active MF3 or its active fragment according to claim 1, wherein said DNA fragment may contain degenerate codons.
- 3. (amended) A method of acquiring resistance of a plant against microbes and/or plant parasites by introducing the bioactive polypeptide MF3 of claim 1, or an active fragment, or a functional derivative thereof into plants mechanically or by means of carrier molecules.
- 4. (original) The method according to claim 3, wherein the carrier is chitosan.
- 5. (original) A vector comprising the DNA according to claim 2.
- 6. (amended) A transgenic plant or plant cell culture comprising a vector according to claim 5.
- 7. (original) A host cell stably transformed or transfected with a vector of claim 5.
- 8. (amended) A plant protectant composition comprising isolated bioactive polypeptide MF3, an isolated active fragment of MF3 or any isolated functional derivative of MF3 of claim 1.

- 9. (original) The active fragment of MF3 according to claim 1, wherein the amino acid sequence consists of SEQ ID:3 or SEQ ID:4.
- 10. (original) A method of isolating and purifying the polypeptide of claim 1 from bacterial cells expressing said polypeptide, the method comprising the steps:
- a) cultivating a microbial producer strain and extracting cells with a buffer solution at an elevated temperature;
- b) precipitating a crude MF3 polypeptide at low temperature with a precipitant;
- c) fractionating re-dissolved precipitate by an anion exchange chromatography column and collecting fractions with anti-microbial or anti-insect activities;
- d) performing polyacrylamide gel electrophoresis of the polypeptide fractions with antimicrobial, anti-nematode, or anti-insect activities;
- e) recovering the protein eluted from the gel of step d.
- 11. (new) A method to protect plants or plant cell cultures from microbial diseases or pests by applying the protectant composition of claim 8.
- 12.(new) The method according to claim 11, wherein the plants or plant cell cultures are protected from diseases caused by a microbe selected from the group consisting of *Phytophtora infestans, Erwinia carotovora, Pyricularia oryzae, Fusarium cumorum, Septoria nodorum,* Tobacco Mosaic Virus, Potato Virus X, and Potato Virus Y.
- 13. (new) The method according to claim 11, wherein the plants are protected from potato cyst nematodes.
- 14. (new) The transgenic plant or plant cell culture of claim 6, wherein the transgenic plant or cell culture expresses increased resistance against a disease caused by a microbe selected from the group consisting of *Phytophtora infestans, Erwinia carotovora, Pyricularia oryzae, Fusarium cumorum, Septoria nodorum*, Tobacco Mosaic Virus, Potato Virus X, and Potato Virus Y.

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15. (new) The transgenic plant or plant cell culture of claim 6, wherein the transgenic plant or cell culture expresses increased resistance against potato cyst nematodes.